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TI Manufacture of water-soluble flavonol glycosides with galactosidase and glucanotransferase

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PI JP 04066096 wt.% soly. in H2O, vs. 0.001 wt.%, for rutin. (rhamnose:glucose:galactose = 1.3.5:1.2). The products had .gtoreq.10 at 50.degree. for 16 h in phosphate buffer to manuf. 32 g rutin glycosides were treated with cyclodextrin glucanotransferase and 100 g sol. dextrin $60.\mathrm{degree}$. for 4 h to produce 60% galactose-modified rutins, which (20 g) treated with .beta.-galactosidase and phosphate buffer contg. lactose at glucosylation. I are useful as stable antioxidants and UV absorbers for manufd. from quercetin glycosides by enzymic galactosylation and 6,1-bond and 2 glucose residues by .alpha.-1,4-bond; m = 1-3; n = 1-7) are = glucose residue, H; in which glucose and rhamnose residues are bonded by foods, cosmetics, and pharmaceuticals (no data). DMSO soln. of rutin was residue, H; R3, R5 = galactose residue, H; when R2 = H, then R3 = none; R4 The title glycosides I (R1 = glucose or arabinose residue; R2 = rhamnoseJP 1990-179836 19900706

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